

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-5. (Previously Cancelled)

6. (Currently Amended) An air-stirring blade to be mounted within an internal combustion engine, comprising:

a cylindrical body ~~(1) whose~~ having a mid portion ~~[[is]]~~ provided with blades, ~~[[2]]~~ wherein an inner side of each of the blades ~~[[2a]]~~ has a groove with a dip angle ~~[[3]]~~ of about 10° to 80° with respect to a vertical axis of the body, and each of the blades has a twisted center tunnel inner passage; and

each of the blades ~~comprising~~ having an outer side ~~of (2b)~~ that has ~~about the~~ substantially same shape as the inner side ~~[[2a]]~~ thereof and at least two intersections ~~[[4]]~~ between each of the blades ~~[[2]]~~ and the body ~~[[1]]~~ to form an outer passage with a cross section ~~[[5]]~~ which is twisted along the body.

7. (Currently Amended) The air-stirring blade of claim 6 further comprising a lip ~~[[6]]~~ around the cylindrical body.

8. (Previously added) The air-stirring blade of claim 6 wherein the blade and body are integrally constructed.

9. (Currently Amended) An air-stirring blade for mounting

within an internal combustion engine, comprising:

a blade $[(2)]$ formed in a body and having an inner side $[(2a)]$ with at least two coiled grooves, each coiled groove having a dip angle $[(3)]$ of about 10° to 80° with respect to a vertical axis of the body, the blade having a twisted center inner passage; and

~~the blade having an outer side $[(2b)]$ with about the~~
substantially same shape as the inner side $[(2a)]$, [and]
wherein when the blade is inserted into an air duct, it has at
least two intersections $[(4)]$ between the blade $[(2)]$ and
the air duct forming an outer passage that is twisted along the
body.

10. (Previously added) The air-stirring blade of claim 9 wherein there are four of the blades and there are at least four of the intersections.

11. (Currently Amended) The air-stirring blade of claim 6 or 9, wherein the blade is made of nonmetal materials.

12. (Currently Amended) The air-stirring blade of claim 6 or 9, wherein the blade is made of polymer.

13. (Currently Amended) The air-stirring blade of claim 6 or 9, wherein the blade is made of metal.

14. (Previously added) The air-stirring blade of claim 6 wherein there are at least four said intersections between the blades and the body.

Appln No. 10/789,356

Supp Prel Amdt date June 24, 2004

15. (Previously added) The air-stirring blade of claim 6 wherein the dip angle is about 30° .

16. (Previously added) The blade of claim 9 wherein the dip angle is about 30° .